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(72)Inventor : IMAI YOJI
ISHIHARA YOKO

(54) COMPOSITION FOR TREATING TOOTH PLANE

(57)Abstract:

PURPOSE: To obtain a composition for treating tooth planes, usable as a relieving material for hyperesthesia, a primer for coating treatment or a root canal filler in dental treatment with no irritancy, excellent in acid resistance and having long persistence of effects on dentinal tubule sealing.

CONSTITUTION: The objective composition is composed of two solutions (A) and (B) containing a substance capable of rapidly producing fluoroapatite by mixing both and capable of forming the fluoroapatite better in acid resistance than that of hydroapatite by successively coating the solutions (A) and (B) on tooth planes and sealing the interior of slender tubules or apical foramens of the root canal. Furthermore, the solution (A) mainly contains (a) a water-soluble phosphate such as sodium phosphate or potassium phosphate at 1-30wt.% concentration and (b) a water-soluble fluoride such as NaF or KF at 0.01-5wt.% concentration and the solution (B) mainly contains a water-soluble calcium salt such as CaCl₂ at 1-30wt.% concentration. A surfactant having no damaging action on the solution (A) and/or the solution (B) in an amount of 0.0005-1wt.% may further be added.

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